

## 5. Arkhangelskiales Bown & Hampton in Young & Bown (1997)

**Description:** Tiered 'placoliths' (see comments), with 3-5 closely appressed 'shields'. Central-area structures include transverse bars with proximal net; axial or near-axial crosses with proximal net; and perforate plates crossed by axial or near-axial sutures. LM images vary significantly, from predominantly dark in the Kamptneriaceae, to predominantly bright in the Arkhangelskiellaceae.

**Comments:** The Kamptneriaceae appears to have originated from loxolith coccoliths, and the tiered placolith rim structure is actually a modified loxolith construction (Hampton et al., in prep.). The earliest representatives of the family are only slightly modified loxolith coccoliths. Such an evolutionary history has not yet been established for the Arkhangelskiellaceae.

Young, J. R. & Bown, P. R. 1997. Proposals for a revised classification system for calcareous nanoplankton. *Journal of Nanoplankton Research*, **19(1)**: 15-47.